Customer : ROXBURGH ELECTRONICS LIMITED

No. AD-96-1017

Date : Jan. 29. 1996

Attention:

Your ref. No:

Your Part. No: 21 1127

SPECIFICATIONS

ALPS':

MODEL RK09711110K

F.E.C. No: 642-897

Sample No. : G0444854M

RECEIPT STATUS

RECEIVED

By. Date

Signature

Name

Title

ALPS ELECTRIC CO., LTD.

HEAD OFFICE
1-7, YUKIGAYA-OHTSUKA-CHO,
OHTA-KU, TOKYO 145 JAPAN

DSG'D Y. Asama

APP'D M. Endo

ENG. DEPT. DIVISION

Sales

No. AD-96-1017

SPECIFICATIONS

1. THIS SPECIFICATIONS APPLY TO RK0971110 POTENTIOMETERS.

2. CONTENTS OF THIS SPECIFICATIONS.

G0444854M
K091K0001

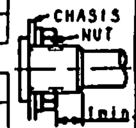
3. MARKING

·MARKING ON ALL UNITS
DATE CODE, RESIST. VALUE, TAPER

4. REMARKS

·FURNISH PACKAGE
NUT: 1, WASHER: 1

ELECTRICAL	Single shaft (R1)
1. Total resistance:	10 kΩ± 20%
2. Rated power:	0.05W
3. Rated voltage:	Please refer to the attached.
4. Resistance taper:	Please refer to the attached.
5. Tap position:	—
6. Tap resistance between terminals:	—
7. Residual resistance between terminals:	1&2, 2&3 : 20Ω max.
8. Sliding noise : (Measured by JIS C 6443)	Less than 100mV
9. Insulation resistance :	More than 100 MΩ at 250V D.C.
10. Withstand voltage:	300V A.C. for 1 minute.
11. Gang error :	—
12. switch rating: (Resistor load)	—
13. Switch contact resistance:	—
14. Circuit:	—
MECHANICAL	
1. Total rotational angle :	300° ±5°
2. Rotational torque: (Rotational speed 60°/sec.)	20-250 gf·cm.
3. Stopper strength :	5 kgf·cm min.
4. Resistance to soldering heat :	Please refer to the attached.
5. Bushing nut tightening strength :	Tightening torque to be no greater than 10 kgf·cm. ‡Pay attention otherwise the strength may not be assured.
6. Push / pull strength :	No damages with an application of Push or pull force 10 kgf for 10 sec.
7. Shaft wobble : (Apply the moment of 500gf·cm at the point of 30mm from monting surface)	0.4 XL/30mm p-p max. (L:Shaft length) (If the shaft length is less than 30mm, the value shall be calculated proportionally.)
8. Operation force of shaft:	—
9. Click position :	—
10. Click torque:	—
11. Rotation play at the click position:	—
12. Contact arrangement :	—
13. Switching angle :	—
14. Switch operation torque :	—
ENDURANCE	
1. Rotational life :	More than 15.000 cycles.



NOTES
1. The items except above mentioned items shall meet or exceed JIS C 6443.
2. This type is protected against sulfides.

ALPS ELECTRIC CO., LTD.	TITLE SPECIFICATIONS	SYMB	DATE	APPD	CHKD	DSGD	APPD. Mar. 05. '94 R. Arasawa	CHKD. Mar. 05. '94 M. Endo	DSGD. Mar. 05. '94 I. Yamaguti	No. G0444854M

Rated voltage :

The rated voltage shall be the voltage of D. C. or A. C. (commercial frequency , effective value) corresponding to the rated power (dissipation), and be obtained from the following formula. When the obtained rated voltage exceeds the maximum working voltage given in the following , however, the maximum working voltage of the following shall be the rated voltage.

$$E = \sqrt{P \cdot R} \text{ (V)}$$

Where E : Rated voltage (V)
P : Rated power (dissipation) (W)
R : Nominal total resistance (Ω)

Maximum working voltage : 50 V A. C. , 10 V D. C.

Resistance to soldering heat

There shall be no evidence of poor contact between resistance element and terminals, or any physical damages as a result of soldering.

- Dip soldering
  - Condition of soldering :
    Soldering shall be certified with following condition.
  - Substrate to be soldered :
    Copper clad laminated phenol board in one surface of 1.6 mm thickness.
  - Solder flux :
    Flux of 0.82 specific weight in bubbling type solder fluxcoating apparatus shall be used and bubbling surface height shall be defined substantially as half thickness of substrate.
    Flux shall not flow up on substrate surface.
  - Preheating :
    Surface temperature of substrate shall be settled within 100°C in 2 minutes.
  - Dip soldering :
    To be performed in 3 seconds within 260°C.

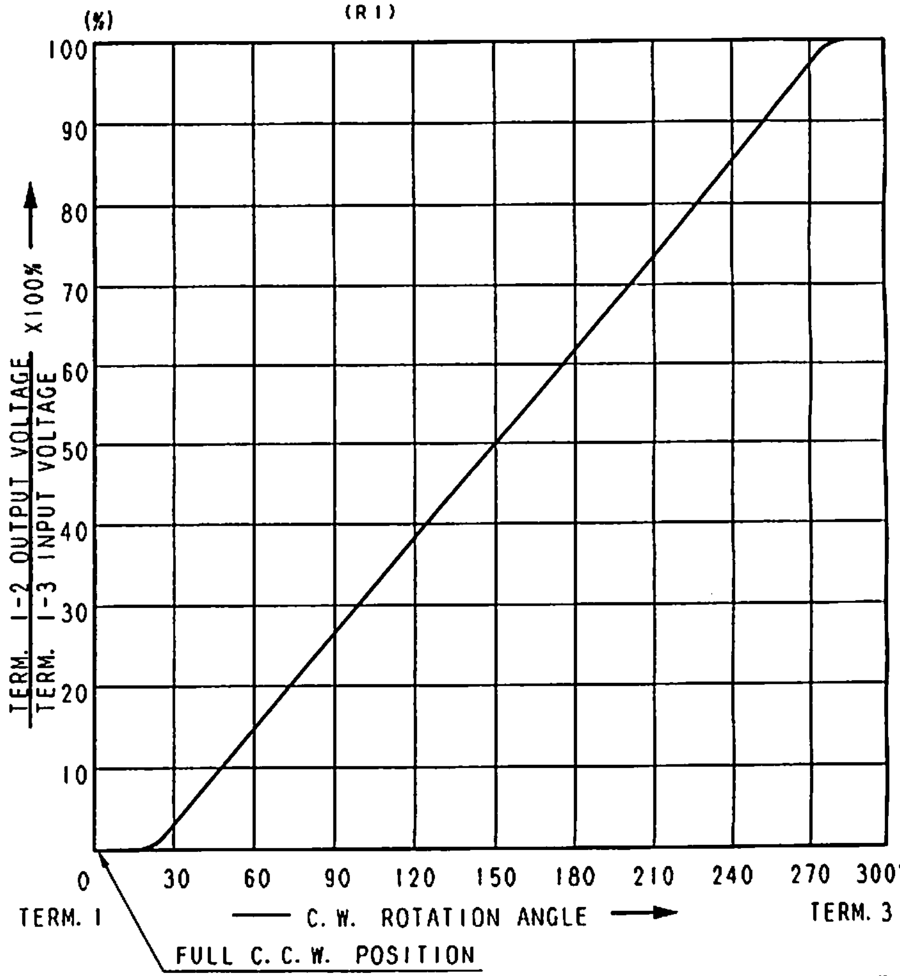
  Please use the above process only 1 or 2 times.

- Manual soldering
  To be performed in 3 seconds within 300°C.

SYMB	DATE	APPD	CHKD	DSGD	APPD.	CHKD.	DSGD.	NAME / DOCUMENT NO
					Nov. 23. '94 R. Arasawa	Nov. 23. '94 M. Endo	Nov. 23. '94 I. Yamamoto	

ALPS ELECTRIC CO., LTD
1-7 YUKIGAYA OTSUKA-CHO OTA-KU TOKYO JAPAN

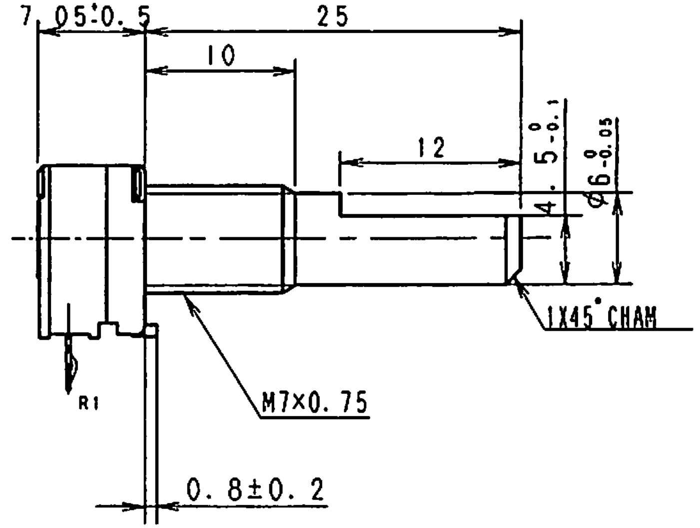
(R1)

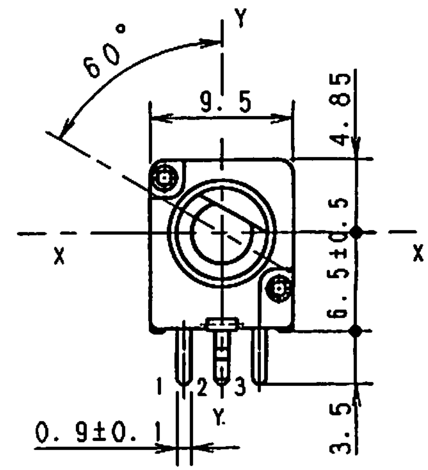


AT 150° C. W. SHAFT ROTATION FROM FULL C. C. W. POSITION VOLTAGE PERCENT SHALL FALL WITHIN THE LIMITS OF 40-60 PERCENT.

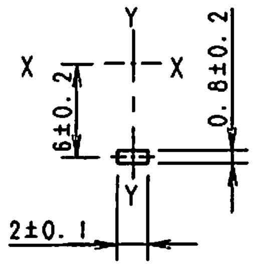
SYMB	DATE	APPD	CHKD	DSGD	APPD.	CHKD.	DSGD.	NAME / DOCUMENT NO
					Nov. 23. '94 I. Nasuno	Nov. 23. '94 S. Sasaki	Nov. 23. '94 I. Sasaki	K09-B01 RESISTANCE TAPER / G0444854M

NOTES
BUSHING MATERIAL ----- ZINC ALLOY DIE CASTING
SHAFT MATERIAL ------- ALUMINUM

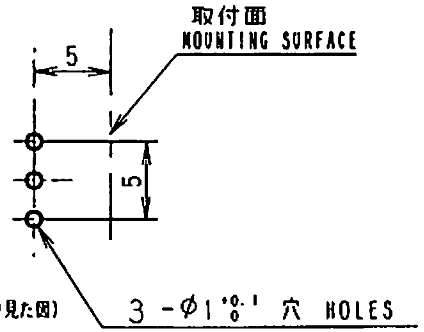




LOCATING LUG DETAIL
シャーシ止め詳細図



上図は軸を反時計方向に
回し切った状態を示す。
SHAFT SHOWN IN
FULL CCW POSITION



端子取付穴寸法図 (挿入側より見た図)
(許容差±0.1)
MOUNTING HOLE DETAIL
(TOLERANCE±0.1)
VIEWED FROM
MOUNTING SIDE

指定なき部分の許容差 TOLERANCES UNLESS OTHERWISE SPEC	
L≦10	±0.3
10＜L＜100	±0.5
100≦L	±0.8
角度 ANGULAR DIMENSION	±5°

SYMB	DATE	APPD	CHKD	DSGD

ALPS ELECTRIC CO., LTD.

DSGN. 第1製品部 設計1課 T. YAMAGUTI '94-05-23	SCALE ╳	G0444854M
CHKD. M. ENDO '94-05-23		TITLE 9形1軸甲達 VR 組立図
APPD. R. ARASAWA '94-05-23	UNIT mm	DOCUMENT NO. K091K0001